

**IST Conference  
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**Making Sustainability Transitions Happen**

**Facing the change mirror,  
hold by 'Act-Now' climate activists**

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# Change !?

## WHAT?

- ❖ (reconsider) **IDEAS**
- ❖ (resist aberrant) **INTERESTS**
- ❖ (reform) **INSTITUTIONS**
- ❖ (restructure) **INFRASTRUCTURES**
- ❖ (revolve fully) **ENERGY-TECHNOLOGY sources & applications**

THANKS TO **DUNCAN GREEN (2016): how change happens**

**Figure 1: Climate and energy policy scene: Actors driven by and driving Ideas, Interests, Institutions, Infrastructures, based on Indispensable energy-technology transformations**



# Change !?

## WHY? WHEN?

- ❖ Climate Change is evolving in ***irreversible*** Climate Collapse
- ❖ Hence, ***urgency*** needed
  - ❖ Hence, ***'Act-Now'*** is valid claim
  - ❖ Which Acts are proposed by STRN community?

## WHO?

**People suggest change, without changing  
The others should change !**



**Why me?**

**Academic modeler, author, adviser, official,...?**

**Are academic proposals practical, speedy, ... ?**

# Change !?

How?

**Sustainable Development**  
is a radical change paradigm

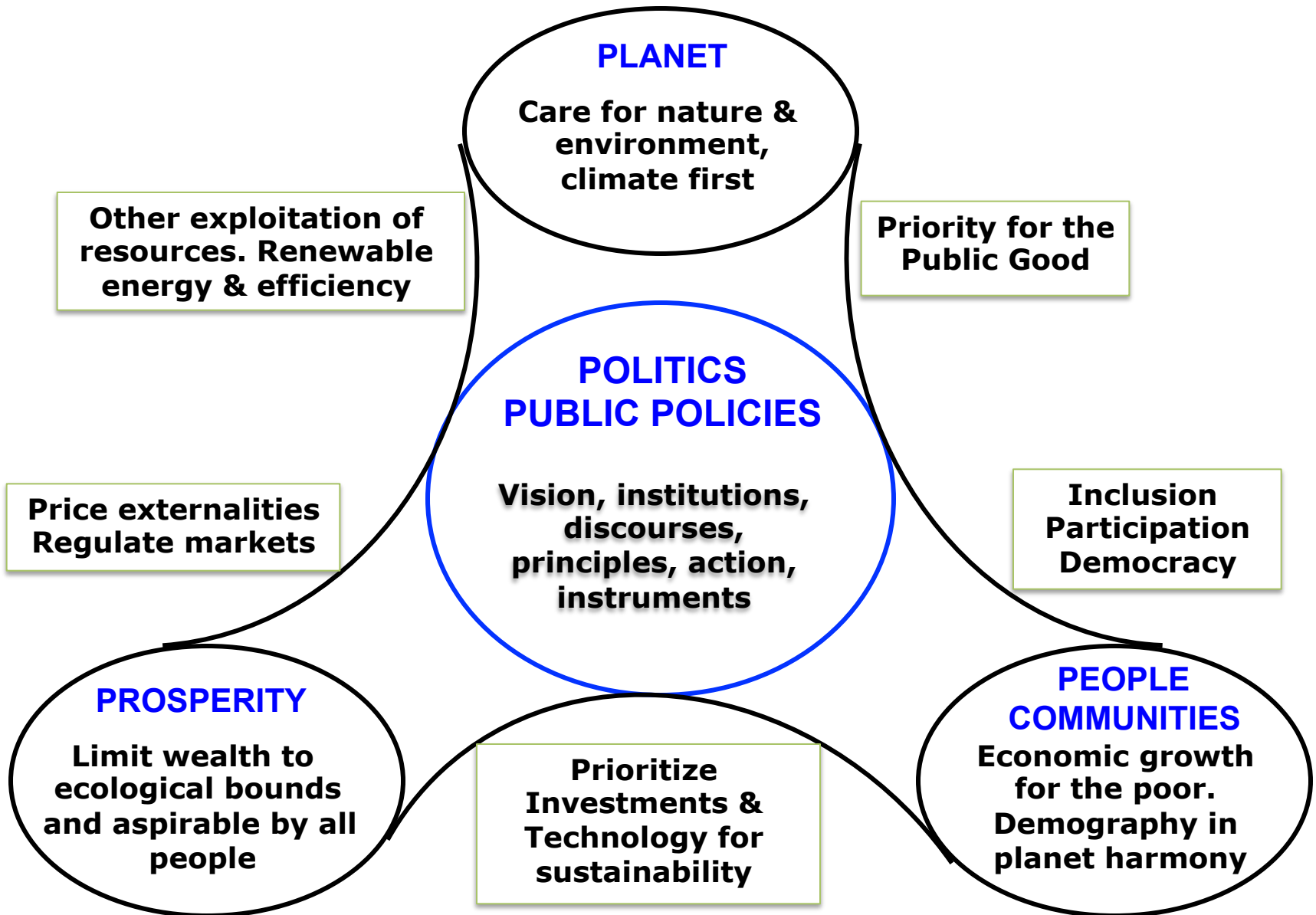
⇔ **conquered by Business-as-Usual interests?**  
**3P mantra Profit, Planet, People:**  
**Profit first if not Profit<sup>3</sup>**

❖ **Politics is the dynamic P of the 4P components** (figure 2)

**Reclaim the paradigm**

Figure 2: thanks to **WCED (1987): Our Common Future (chapter 2)**

**Figure 2: Sustainable development holds 4 main dimensions. Politics stays central, moulding vision, institutions, discourses; guarding principles; spurring action**



# Change !?

How?

## Inertia ⌘ Reversal diptychs

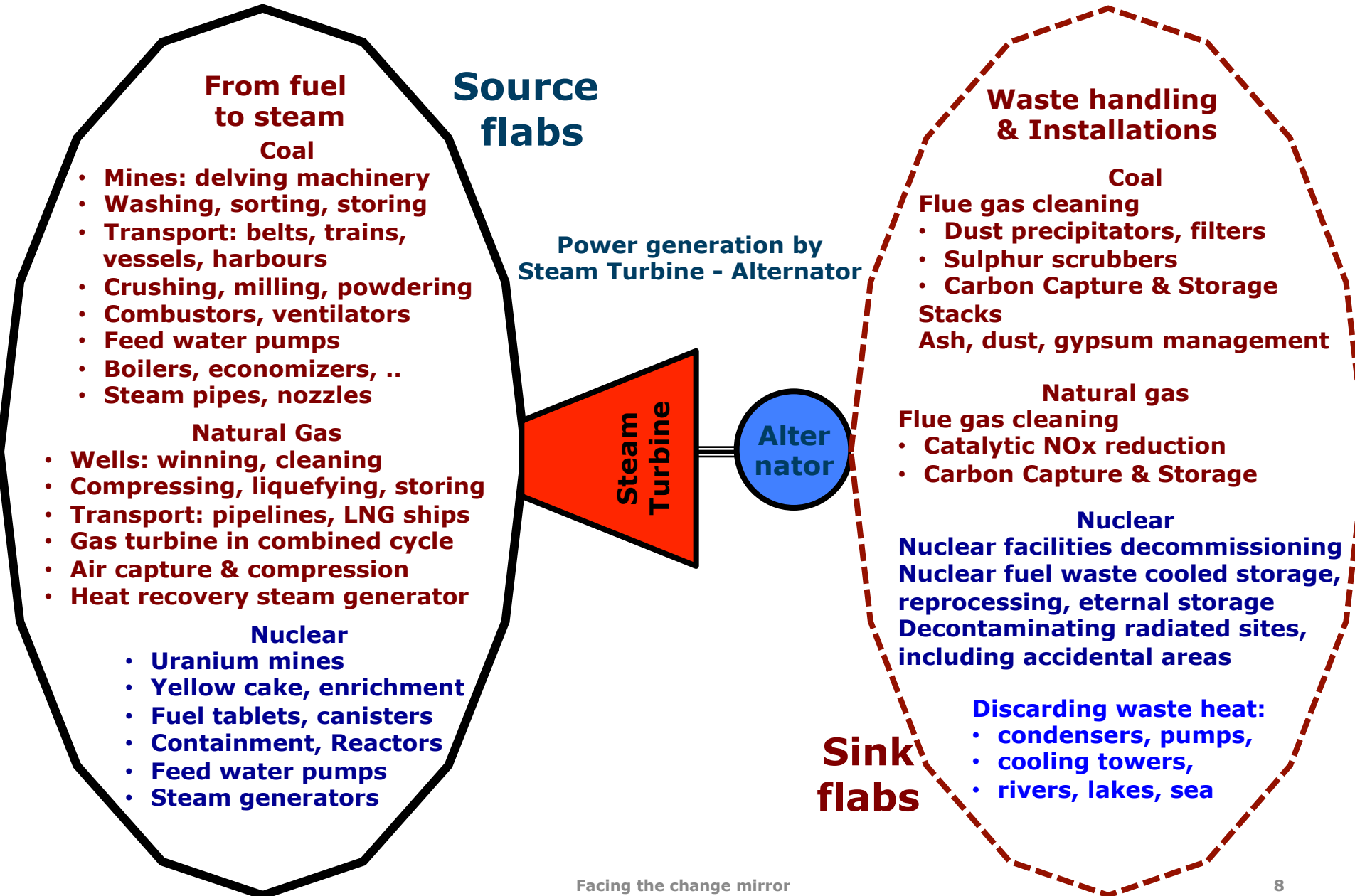
### LEARN FROM *MODERN CORPORATE STRATEGIES*:

- **MANAGE DISRUPTIONS: REACT ON OPPORTUNITIES / TREATS**
- **TIME/EVENT-SEQUENTIAL DECISION-MAKING MACHINERY  
(LONG-RANGE SCENARIOS ARE ONLY THE ROOMS, FRAMES)**
- **GAME THEORETICAL TOOLS**

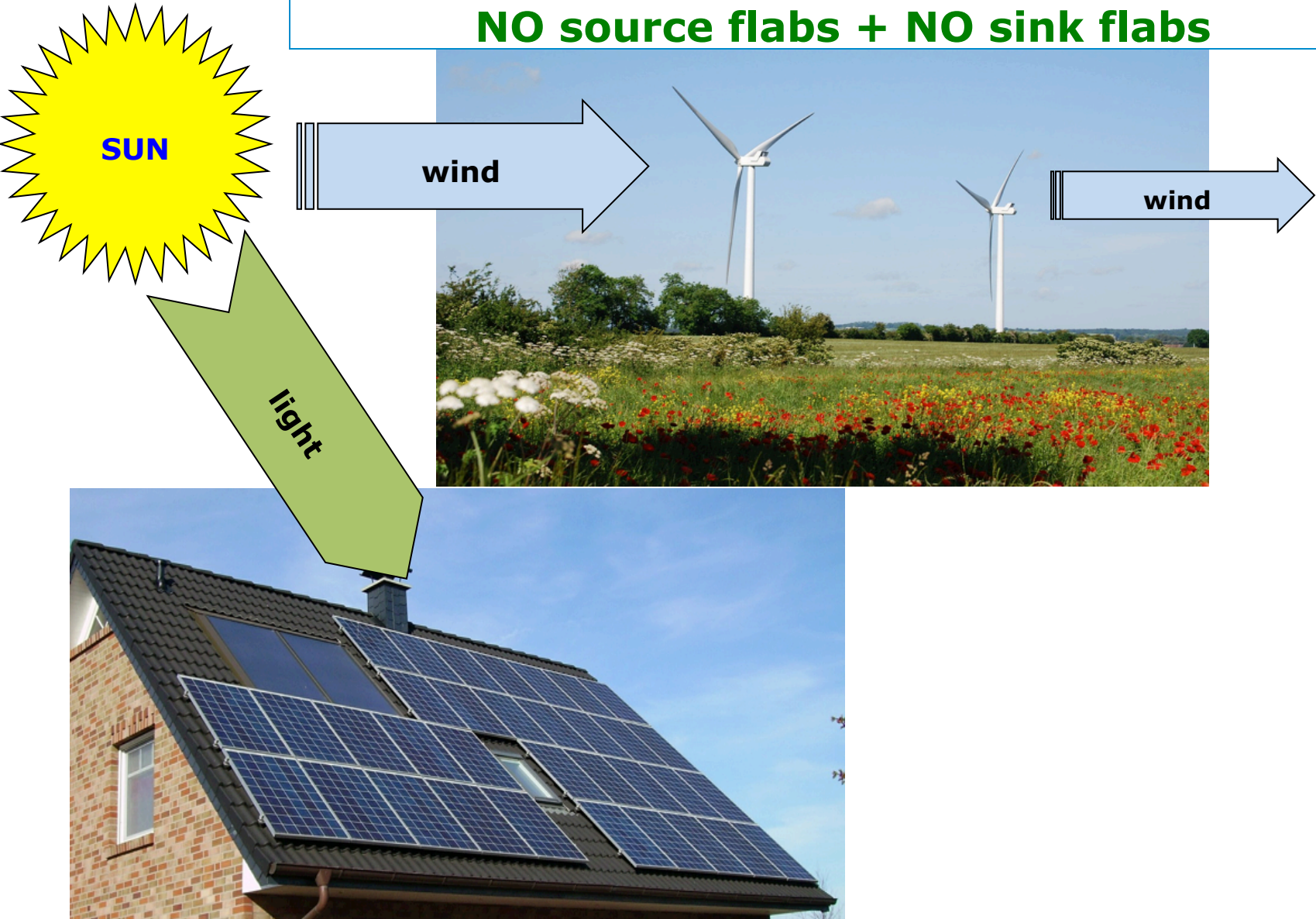
### Example: Energy transformation Precursor of societal transformation

- ❖ **Maximum electrification of activities**
- ❖ **100% renewable power harvesting**
- ❖ **Phase-out fossil fuels**
- ❖ **Phase-out nuclear power**

**Figure 3: Steam electricity generation needs many costly and polluting flab activities to source steam and to sink waste and waste heat (non-exhaustive enumeration)**



**2° Transition strain of the energy reversal:  
Harvest Ambient Power  
NO source flabs + NO sink flabs**



# Thanks for listening

**There are sufficient new ideas, technologies, ...**

**Main problem is to kick out the obsolete ones**

**\*\*\*\*\***

**Comments on the paper are welcome**